

WEST Search History

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DATE: Sunday, August 01, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L8	17 and \$cyclopentadecanone	2
<input type="checkbox"/>	L7	16 and (palladium or platinum or cobalt or rhodium or ruthenium)	73
<input type="checkbox"/>	L6	13 and (phosphoric acid or silica-alumina or zeolite)	128
<input type="checkbox"/>	L5	13 and 14	6
<input type="checkbox"/>	L4	macrocyclic ketone	255
<input type="checkbox"/>	L3	12 and (reduc\$ or hydrogenat\$)	292
<input type="checkbox"/>	L2	11 and dehydrat\$	312
<input type="checkbox"/>	L1	acyloin or hydroxyketone	2388

END OF SEARCH HISTORY

10/718,758

=> d his

(FILE 'HOME' ENTERED AT 18:10:30 ON 01 AUG 2004)

FILE 'CASREACT' ENTERED AT 18:10:45 ON 01 AUG 2004

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 22 S L1 FULL

FILE 'CAPLUS' ENTERED AT 18:11:51 ON 01 AUG 2004

L4 1404 S ?ACYLOIN OR ?HYDROXYKETONE

L5 150 S MACROCYCLIC KETONE?

L6 7 S L4 AND L5

L7 67 S L4 AND DEHYDRAT?

L8 2801 S ?UNSATURATED KETONE?

L9 0 S L7 AND L8

L10 33 S L7 AND (REDUC? OR HYDROGENAT?)

L11 197195 S ?PHOSPHORIC ACID OR SILICA-ALUMINA OR ?ZEOLITE

L12 1 S L10 AND L11

L13 1 S L10 AND ACID CATALYST

L14 1 S L10 AND (NICKEL OR PALLADIUM OR PLATINUM OR COBALT OR RHODIUM

L15 22 S L3

L16 4 S L15 AND L4

L17 4 S L3 AND DEHYDRAT?

L18 19 S ?HYDROXYCYCLOPENTADECANONE AND CYCLOPENTADECANONE

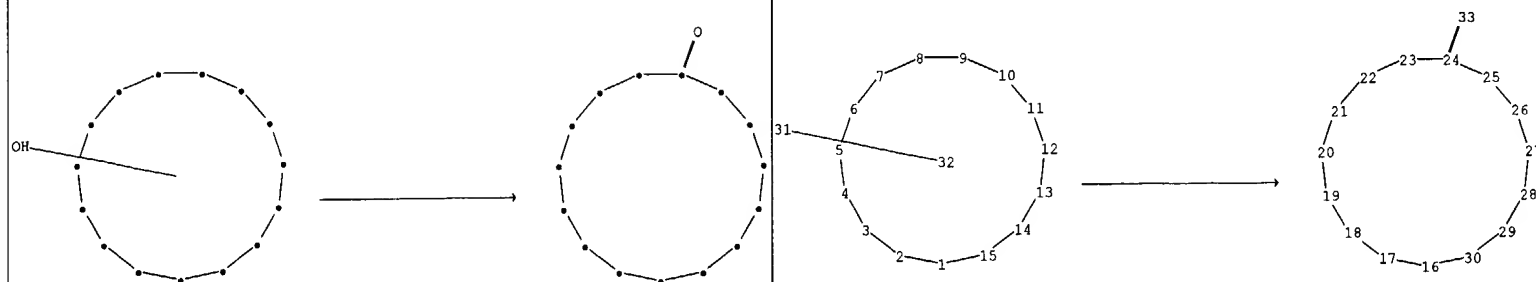
L19 3 S L18 AND DEHYDRAT?

E JP3087921/PN

L20 1 S E3

E JP04139144/PN

L21 1 S E3



chain nodes :

31 33

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30

chain bonds :

24-33

ring bonds :

1-2 1-15 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
16-17 16-30 17-18 18-19 19-20 20-21 21-22 22-23 23-24 24-25 25-26 26-27 27-28
28-29 29-30

exact/norm bonds :

24-33

exact bonds :

1-2 1-15 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
16-17 16-30 17-18 18-19 19-20 20-21 21-22 22-23 23-24 24-25 25-26 26-27 27-28
28-29 29-30

isolated ring systems :

containing 1 : 16 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:CLASS
32:CLASS 33:CLASS

fragments assigned product role:

containing 16

fragments assigned reactant/reagent role:

containing 1

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ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:591930 CAPLUS
DOCUMENT NUMBER: 137:140293
TITLE: Preparation of cycloalkenones and cycloalkanones
INVENTOR(S): Makita, Atsushi
PATENT ASSIGNEE(S): Japan Energy Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002220361	A2	20020809	JP 2001-17711	20010126
PRIORITY APPLN. INFO.:			JP 2001-17711	20010126
OTHER SOURCE(S):		CASREACT 137:140293		

AB Cycloalkenones are prepared by liquid-phase **dehydration** of C12-18 2-hydroxycycloalkanones in the presence of acid catalysts (LA - a silica-alumina catalyst from Catalysts and Chems. Industries Co., Ltd. or HA). Cycloalkanones or alkylcycloalkanones are prepared from cycloalkenones. 2-**Hydroxycyclopentadecanone** was **dehydrated** in the presence of silica-alumina catalyst (HA) in tetradecane at 220° for 7 h to give 85% cyclopentadecenone, which was treated with H in the presence of Pd/C in PhMe at room temperature for 3 h to give 100% **cyclopentadecanone**.